



CO-357-01
1st printing

Game PCB Assembly & Parts List

4-MB PROM Version

Supplement to the Operator's Manual

PIT-FIGHTER™

Introduction

Your Pit-Fighter Game PCB contains 4-MB Graphics ROMs. The *Pit-Fighter Operator's Manual*, TM-357, shows a parts list of the game PCB using 1-MB EPROMs. So that you can order correct replacement parts, this supplement provides a parts list of the 4-MB version of the PCB.

For other information on this game, please refer to the *Pit-Fighter Operator's Manual* that was included with your Pit-Fighter game.

If you need technical assistance,
call your distributor or Atari Games Customer Service
at one of the following locations:

United States: (408) 434-3950

Atari Games Corporation, 737 Sycamore Drive, Milpitas, CA 95036-1110
(Monday–Friday, 7:30 a.m.–4:00 p.m. Pacific time)

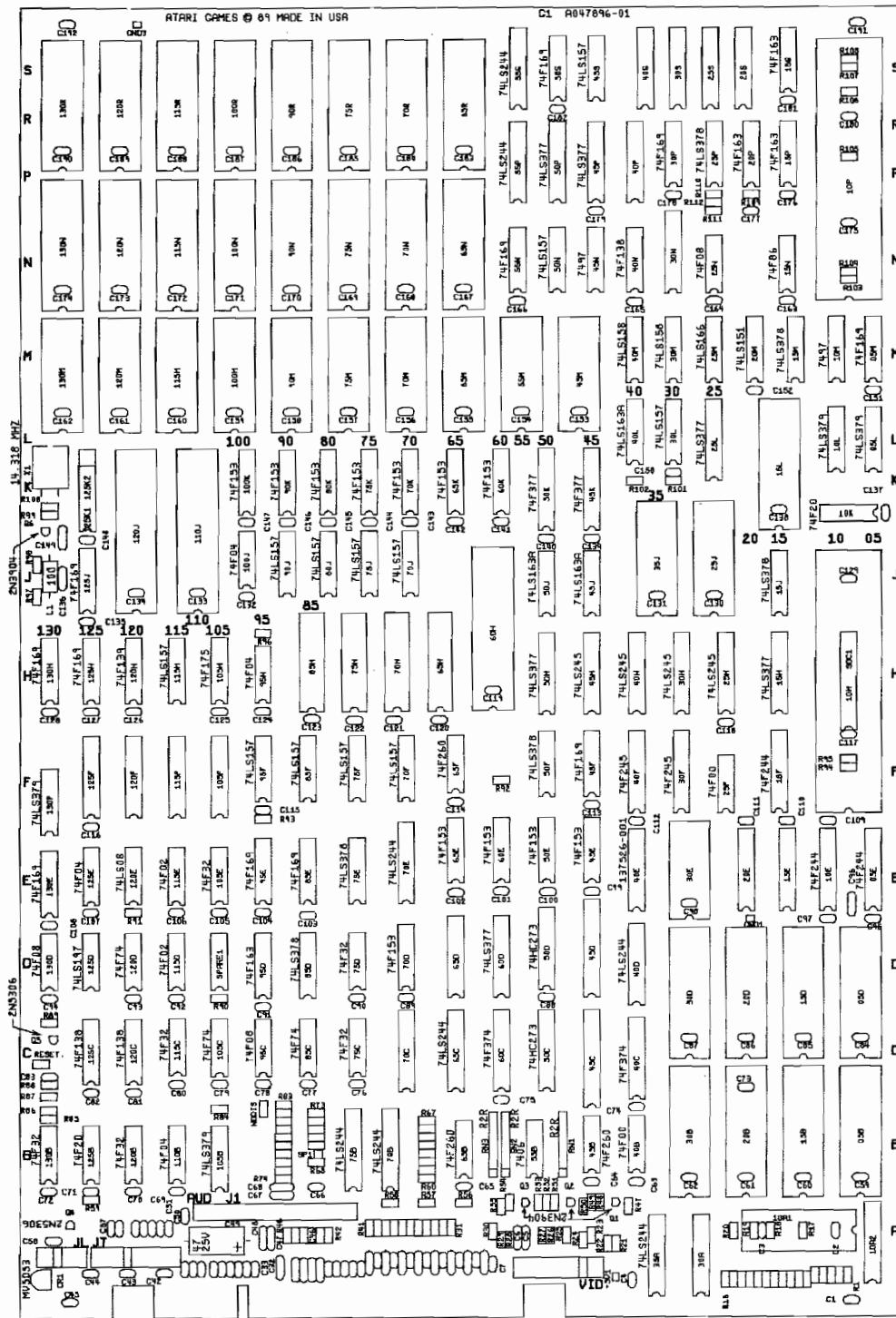
OR

Europe: 062-52155

Atari Games Ireland Limited, Tipperary Town, Ireland
(Monday–Friday, 9:00 a.m.–5:30 GMT)



Atari Games Corporation • 675 Sycamore Drive • Milpitas, CA 95036-1110



NOTE

The Pit-Fighter Board Set Assembly consists of:

A047896-03, Pit-Fighter Game
PCB Assy. (this illustration)

A047184-05, JSA Audio II
PCB Assy.

178278-616. #6 Threaded

PCB Support Standoffs

177000-536, #6-32 Nylon Nut

Your Pit-Fighter Game PCB

Your Fit-It lighter Game PCB may contain 1-MB EPROMs.

That version of the PCB is

shown in the Pit-Fighter Operator's Manual (TM-357), which

atol's Manual (TM-337), which was included with your game.

The schematic published in Chapter 5 of that manual applies to both versions of the

The schematic published in Chapter 5 of that manual applies to both versions of the Sanyo BCB.

The schematic published in Chapter 5 of that manual applies to both versions of the Game PCB.

**Figure 1 Pit-Fighter Game PCB Assembly
A047896-03 C (4-MB PROM Version)**

Pit-Fighter Game PCB Assembly (4-MB PROM Version)
Parts List

Designator	Description	Part No.	Designator	Description	Part No.
Sockets					
5B, 5D	Socket, 32 Pin, .600-Inch	179257-032	10M	Integrated Circuit, 7497	137090-001
10A1	Socket, 28 Pin, .600-Inch	179257-028	10P	Integrated Circuit	136079-1053
10A2	Socket, 20 Pin, .300-Inch	179259-020	15B	Integrated Circuit, EPROM	136081-1031
10H, 10P	Socket, 64 Pin, .900-Inch	179256-064	15D	Integrated Circuit, EPROM	136081-1030
15B, 15D	Socket, 32 Pin, .600-Inch	179257-032	15E	Integrated Circuit, GAL16V8	136081-1043
15E	Socket, 20 Pin, .300-Inch	179259-020	15F	Integrated Circuit, 74F244	137502-001
15L, 20B, 20D	Socket, 32 Pin, .600-Inch	179257-032	15H	Integrated Circuit, 74LS377	137145-001
20E, 20S	Socket, 20 Pin, .300-Inch	179259-020	15J	Integrated Circuit, 74LS378	137305-001
25J	Socket, 28 Pin, .600-Inch	179257-028	15L	Integrated Circuit, EPROM	136081-1027
25S, 30A	Socket, 20 Pin, .300-Inch	179259-020	15M	Integrated Circuit, 74LS378	137305-001
30B, 30D	Socket, 32 Pin, .600-Inch	179257-032	15N	Integrated Circuit, 74F86	137649-001
30E	Socket, 24 Pin, .600-Inch	179257-024	15P, 15S	Integrated Circuit, 74F163	137345-001
30N, 30S	Socket, 20 Pin, .300-Inch	179259-020	20E	Integrated Circuit, SLAPSTIC II	137412-112
35J	Socket, 28 Pin, .600-Inch	179257-028	20M	Integrated Circuit, 74LS151	137101-001
40P, 40S	Socket, 20 Pin, .300-Inch	179259-020	20P	Integrated Circuit, 74F163	137345-001
45C, 45D	Socket, 24 Pin, .300-Inch	179259-024	20S	Integrated Circuit, PROM	136081-1042
45M, 55M	Socket, 28 Pin, .600-Inch	179257-028	25F	Integrated Circuit, 74F00	137327-001
60H	Socket, 40 Pin, .600-Inch	179257-040	25H	Integrated Circuit, 74LS245	137134-001
65D	Socket, 20 Pin, .300-Inch	179259-020	25J	Integrated Circuit, RAM, 32K x 8, 70 nsec	137615-070
65H	Socket, 24 Pin, .400-Inch	179258-024	25L	Integrated Circuit, 74LS377	137145-001
65M	Socket, 28 Pin, .600-Inch	179257-028	25M	Integrated Circuit, 74LS166	137118-001
65N, 65R	Socket, 32 Pin, .600-Inch	179257-032	25N	Integrated Circuit, 74F08	137483-001
70C	Socket, 20 Pin, .300-Inch	179259-020	25P	Integrated Circuit, 74LS378	137305-001
70H	Socket, 24 Pin, .400-Inch	179258-024	25S	Integrated Circuit, PROM	136081-1041
70M	Socket, 28 Pin, .600-Inch	179257-028	30E	Integrated Circuit, 28C16-200, 200 nsec	137648-200
70N, 70R	Socket, 32 Pin, .600-Inch	179257-032	30F	Integrated Circuit, 74F245	137591-001
75H	Socket, 24 Pin, .400-Inch	179258-024	30H	Integrated Circuit, 74LS245	137134-001
75M	Socket, 28 Pin, .600-Inch	179257-028	30L	Integrated Circuit, 74LS157	137029-001
85H	Socket, 24 Pin, .400-Inch	179258-024	30M	Integrated Circuit, 74LS158	137203-001
90M, 100M	Socket, 28 Pin, .600-Inch	179257-028	30N	Integrated Circuit, GAL16V8	136079-1052
105F	Socket, 20 Pin, .300-Inch	179259-020	30P	Integrated Circuit, 74F169	137496-001
110J	Socket, 40 Pin, .600-Inch	179257-040	30S	Integrated Circuit, PROM	136081-1040
115F	Socket, 20 Pin, .300-Inch	179259-020	35A	Integrated Circuit, 74LS244	137038-001
115M	Socket, 28 Pin, .600-Inch	179257-028	35J	Integrated Circuit, RAM, 32K x 8, 70 nsec	137615-070
120F	Socket, 20 Pin, .300-Inch	179259-020	40B	Integrated Circuit, 74F00	137327-001
120J	Socket, 40 Pin, .600-Inch	179257-040	40C	Integrated Circuit, 74F374	137420-001
120M	Socket, 28 Pin, .600-Inch	179257-028	40D	Integrated Circuit, 74LS244	137038-001
125F	Socket, 20 Pin, .300-Inch	179259-020	40E	Integrated Circuit, SCOM	137526-001
130M	Socket, 28 Pin, .600-Inch	179257-028	40F	Integrated Circuit, 74F245	137591-001
Integrated Circuits					
5B	Integrated Circuit, EPROM	136081-1029	40G	Integrated Circuit, 74LS245	137134-001
5D	Integrated Circuit, EPROM	136081-1028	40H	Integrated Circuit, 74LS163 A	137114-001
5E	Integrated Circuit, 74F244	137502-001	40L	Integrated Circuit, 74LS158	137203-001
5L	Integrated Circuit, 74LS379	137374-001	40M	Integrated Circuit, 74LS158	137203-001
5M	Integrated Circuit, 74F169	137496-001	40N	Integrated Circuit, 74F138	137521-001
10A2	Integrated Circuit, 74LS244	137038-001	40P	Integrated Circuit, GAL16V8	136079-1045
10E	Integrated Circuit, 74F244	137502-001	40S	Integrated Circuit, GAL16V8	136079-1047
10H	Integrated Circuit, MC68HC000P12F	137669-0001	45B	Integrated Circuit, 74F260	137570-001
10K	Integrated Circuit, 74F20	137530-001	45C, 45D	Integrated Circuit, RAM, 2K x 8, 35 nsec, .3	137534-001
10L	Integrated Circuit, 74LS379	137374-001	45E	Integrated Circuit, 74F153	137492-001
			45F	Integrated Circuit, 74F169	137496-001
			45H	Integrated Circuit, 74LS245	137134-001

Pit-Fighter Game PCB Assembly (4-MB PROM Version)
Parts List, Continued

Designator	Description	Part No.	Designator	Description	Part No.
45J	Integrated Circuit, 74LS163 A	137114-001	85C	Integrated Circuit, 74F74	137436-001
45K	Integrated Circuit, 74F377	137622-001	85D	Integrated Circuit, 74LS378	137305-001
45M	Integrated Circuit, EPROM	136081-1025	85E	Integrated Circuit, 74F169	137496-001
45N	Integrated Circuit, 7497	137090-001	85F	Integrated Circuit, 74LS157	137029-001
45P	Integrated Circuit, 74LS377	137145-001	85H	Integrated Circuit, VRAM, 64K x 4, 150 nsec	137553-001
45S	Integrated Circuit, 74LS157	137029-001	90J	Integrated Circuit, 74LS157	137029-001
50C, 50D	Integrated Circuit, 74HC273	137556-001	90K	Integrated Circuit, 74F153	137492-001
50E	Integrated Circuit, 74F153	137492-001	90M	Integrated Circuit, EPROM	136081-1021
50F	Integrated Circuit, 74LS378	137305-001	95C	Integrated Circuit, 74F08	137483-001
50H	Integrated Circuit, 74LS377	137145-001	95D	Integrated Circuit, 74F163	137345-001
50J	Integrated Circuit, 74LS163 A	137114-001	95E	Integrated Circuit, 74F169	137496-001
50K	Integrated Circuit, 74F377	137622-001	95F	Integrated Circuit, 74LS157	137029-001
50N	Integrated Circuit, 74LS157	137029-001	95H, 100J	Integrated Circuit, 74F04	137437-001
50P	Integrated Circuit, 74LS377	137145-001	100K	Integrated Circuit, 74F153	137492-001
50S	Integrated Circuit, 74F169	137496-001	105B	Integrated Circuit, 74LS379	137374-001
55B	Integrated Circuit, 7406	137052-001	105C	Integrated Circuit, 74F74	137436-001
55N	Integrated Circuit, 74F169	137496-001	105E	Integrated Circuit, 74F32	137486-001
55P, 55S	Integrated Circuit, 74LS244	137038-001	105F	Integrated Circuit, GAL16V8	136081-1051
60C	Integrated Circuit, 74F374	137420-001	105H	Integrated Circuit, 74F175	137498-001
60D	Integrated Circuit, 74LS377	137145-001	110B	Integrated Circuit, 74F04	137437-001
60E	Integrated Circuit, 74F153	137492-001	110J	Integrated Circuit, SOS	137550-001
60H	Integrated Circuit, PFHS	137419-104	115C	Integrated Circuit, 74F32	137486-001
60K	Integrated Circuit, 74F153	137492-001	115D, 115E	Integrated Circuit, 74F02	137481-001
65B	Integrated Circuit, 74F260	137570-001	115F	Integrated Circuit, GAL16V8	136081-1050
65C	Integrated Circuit, 74LS244	137038-001	115H	Integrated Circuit, 74LS157	137029-001
65D	Integrated Circuit, GAL16V8	136079-1046	120B	Integrated Circuit, 74F32	137486-001
65E	Integrated Circuit, 74F153	137492-001	120C	Integrated Circuit, 74F138	137521-001
65F	Integrated Circuit, 74F260	137570-001	120D	Integrated Circuit, 74F74	137436-001
65H	Integrated Circuit, VRAM, 64K x 4, 150 nsec	137553-001	120E	Integrated Circuit, 74LS08	137012-001
65K	Integrated Circuit, 74F153	137492-001	120F	Integrated Circuit, GAL16V8	136079-1049
65N	Integrated Circuit, ROM	136081-1066	120H	Integrated Circuit, 74F139	137488-001
65R	Integrated Circuit, ROM	136081-1065	120J	Integrated Circuit, SOS	137550-001
70B	Integrated Circuit, 74LS244	137038-001	120M	Integrated Circuit, EPROM	136081-1018
70D	Integrated Circuit, 74F153	137492-001	125B	Integrated Circuit, 74F20	137530-001
70E	Integrated Circuit, 74LS244	137038-001	125C	Integrated Circuit, 74F138	137521-001
70F	Integrated Circuit, 74LS157	137029-001	125D	Integrated Circuit, 74LS197	137240-001
70H	Integrated Circuit, VRAM, 64K x 4, 150 nsec	137553-001	125E	Integrated Circuit, 74F04	137437-001
70J	Integrated Circuit, 74LS157	137029-001	125F	Integrated Circuit, GAL16V8	136079-1048
70K	Integrated Circuit, 74F153	137492-001	125H, 125J	Integrated Circuit, 74F169	137496-001
70N	Integrated Circuit, ROM	136081-1068	130B	Integrated Circuit, 74F32	137486-001
70R	Integrated Circuit, ROM	136081-1067	130D	Integrated Circuit, 74F08	137483-001
75B	Integrated Circuit, 74LS244	137038-001	130E	Integrated Circuit, 74F169	137496-001
75C, 75D	Integrated Circuit, 74F32	137486-001	130F	Integrated Circuit, 74LS379	137374-001
75E	Integrated Circuit, 74LS378	137305-001	130H	Integrated Circuit, 74F169	137496-001
75F, 75F	Integrated Circuit, 74LS157	137029-001	130M	Integrated Circuit, EPROM	136081-1017
75H	Integrated Circuit, VRAM, 64K x 4, 150 nsec	137553-001	C1-C4	Capacitors	
75J	Integrated Circuit, 74LS157	137029-001	C5	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104
75K	Integrated Circuit, 74F153	137492-001	C7	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101
75M	Integrated Circuit, EPROM	136081-1022	C8	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104
80J	Integrated Circuit, 74LS157	137029-001		Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103
80K	Integrated Circuit, 74F153	137492-001			

Pit-Fighter Game PCB Assembly (4-MB PROM Version)
Parts List, Continued

Designator	Description	Part No.	Designator	Description	Part No.
C9	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R44-R46	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C10	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R47	Resistor, 47 Ω, ±5%, 1/8 W	110027-470
C11	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R48	Resistor, 2.2 KΩ, ±5%, 1/8 W	110027-222
C12	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R49	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C13	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R50	Resistor, 47 Ω, ±5%, 1/8 W	110027-470
C14	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R51	Resistor, 2.2 KΩ, ±5%, 1/8 W	110027-222
C15	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R52	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C16	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R53	Resistor, 47 Ω, ±5%, 1/8 W	110027-470
C17	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R54	Resistor, 2.2 KΩ, ±5%, 1/8 W	110027-222
C18	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R55-R57	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C19	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R58	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C20	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R59-R69	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C21	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R70	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C22	Capacitor, .01 µF, 50 V, +80% -20%, Ceramic	122002-103	R71	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C23-C27	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R72	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C28-C32	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101	R73, R74	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C33-C46	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R75, R76	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C47, C48	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101	R77	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C49	Capacitor, 47 µF, 25 V, Electrolytic	124009-476	R78	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C50-C66	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R79	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C67, C68	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101	R80	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C69-C95, C97-C135	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R81	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C136	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101	R82	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
C137-C148	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R83	Resistor, 10 KΩ, ±5%, 1/8 W	110027-103
C149	Capacitor, 100 pF, 100 V, ±5%, Ceramic	122016-101	R85	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
C150-C192	Capacitor, .1 µF, 50 V, +80% -20%, Ceramic	122002-104	R87	Resistor, 10 Ω, ±5%, 1/8 W	110027-100
Transistors		R88		Resistor, 100 KΩ, ±5%, 1/8 W	110027-104
R89		R89		Resistor, 220 Ω, ±5%, 1/8 W	110027-221
Q1-Q3	Transistor, 2N3904	133041-001	R90	Resistor, 10 Ω, ±5%, 1/8 W	110027-100
Q4, Q5	Transistor, 2N5306	133033-001	R91	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
Q6	Transistor, 2N3904	133041-001	R92	Resistor, 10 Ω, ±5%, 1/8 W	110027-100
Resistors		R94-R96		Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
R1-R4	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102	R97, R98	Resistor, 100 Ω, ±5%, 1/8 W	110027-101
R5	Resistor, 470 Ω, ±5%, 1/8 W	110027-471	R99, R100	Resistor, 10 KΩ, ±5%, 1/8 W	110027-103
R6	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102	R101	Resistor, 10 Ω, ±5%, 1/8 W	110027-100
R7	Resistor, 470 Ω, ±5%, 1/8 W	110027-471	R103-R105	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
R8, R9	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102	R106	Resistor, 470 Ω, ±5%, 1/8 W	110027-471
R10	Resistor, 470 Ω, ±5%, 1/8 W	110027-471	R107, R108	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102
R11	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102	R109, R111, R112	Resistor, 10 Ω, ±5%, 1/8 W	110027-100
R12	Resistor, 470 Ω, ±5%, 1/8 W	110027-471	RN1-RN3	Resistor Network, R2R	118016-001
R13-R16	Resistor, 1 KΩ, ±5%, 1/8 W	110027-102	Miscellaneous		
R17, R18	Resistor, 100 Ω, ±5%, 1/8 W	110027-101	AUD(J1)	Connector, 40 Ckt, .1 x .1 Header	179291-040
R19	Resistor, 220 Ω, ±5%, 1/8 W	110027-221	CR1	Diode, MV5053, Light-Emitting	131027-002
R20	Resistor, 10 KΩ, ±5%, 1/8 W	110027-103	GND1, GND3	Test Point	179051-001
R21	Resistor, 100 Ω, ±5%, 1/8 W	110027-101	JL	Connector, 6 Ckt, Header, .100 Ctr, Key 4	179118-006
R22	Resistor, 47 Ω, ±5%, 1/8 W	110027-470	JT	Connector, 11 Ckt, Header, .100 Ctr, Key 2	179118-011
R23	Resistor, 100 Ω, ±5%, 1/8 W	110027-101	L1	Inductor, 100 µH	141024-001
R24, R25	Resistor, 47 Ω, ±5%, 1/8 W	110027-470	RESET	Connector, 2 Ckt, Header, .100 Ctr	179048-002
R26	Resistor, 100 Ω, ±5%, 1/8 W	110027-101	VID	Connector, 11 Ckt, Header, .100 Ctr, Key 3	179118-011
R27-R29	Resistor, 220 Ω, ±5%, 1/8 W	110027-221	WDDIS	Connector, 2 Ckt, Header, .100 Ctr	179048-002
R30-R41	Resistor, 470 Ω, ±5%, 1/8 W	110027-471	X1	Crystal, 14.318 MHz	144000-004
R42, R43	Resistor, 10 Ω, ±5%, 1/8 W	110027-100	+5V1	Test Point	179051-001